

DERWENT- 1991-260525  
ACC-NO:

DERWENT- 199136  
WEEK:

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TITLE: Automatically correcting position of inclined bottle  
screw cap - before applying correct number of tightening  
turns

INVENTOR: FERCHLAND, D; GRAFE, W ; SCHALAU, K D

PATENT-ASSIGNEE: VEB RATIONAL LACKE[RATIN]

PRIORITY-DATA: 1989DD-0334223 (November 3, 1989)

**PATENT-FAMILY:**

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DD 288815	A April 11, 1991	N/A	000	N/A

**APPLICATION-DATA:**

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
DD 288815A	N/A	1989DD-0334223	November 3, 1989

INT-CL (IPC): B65B007/28, B67B003/20

ABSTRACTED-PUB-NO: DD 288815A

**BASIC-ABSTRACT:**

When a bottle (2) filled with liq. is engaged by an automatically delivered screw cap (1), held down by the concave surface of a rotatable pressure element (20), the cap is usually in inclined position, and subject to cross-threading of further advanced. A timing relay, electromagnet and switch are then automatically operated to rotate the frictionally-engaged cap a specific number of times in one direction, normally anti-clockwise before reversing the

direction to ensure that the cap, initially lifted out of its cross-thread position, is now rotated in correct coupling manner.

After the necessary number of turns, plus an extra turn to ensure tight fit, the pressure element is retracted, and further switch elements cause the bottle, normally mounted on a travelling conveyor, to be advanced before the next bottle arrives.

USE - For bottles contg. medicines, chemicals, soft drinks, etc.

**CHOSEN-** Dwg.1/5

**DRAWING:**

**TITLE-TERMS:** AUTOMATIC CORRECT POSITION INCLINE BOTTLE SCREW CAP  
APPLY CORRECT NUMBER TIGHTEN TURN

**DERWENT-CLASS:** B07 Q31 Q39

**CPI-CODES:** B11-C06A;

**CHEMICAL-** Chemical Indexing M6 \*01\* Fragmentation Code M903 R023  
**CODES:** R501 R720

**SECONDARY-ACC-NO:**

**CPI Secondary Accession Numbers:** C1991-113122

**Non-CPI Secondary Accession Numbers:** N1991-198692